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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=7; day=31; hr=11; min=35; sec=19; ms=457; ]

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Application No: 10559406 Version No: 2.0

**Input Set:**

**Output Set:**

**Started:** 2008-06-25 11:36:45.948  
**Finished:** 2008-06-25 11:36:47.026  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 78 ms  
**Total Warnings:** 8  
**Total Errors:** 1  
**No. of SeqIDs Defined:** 15  
**Actual SeqID Count:** 15

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
E 323	Invalid/missing amino acid numbering SEQID (11) POS (35)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
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W 213	Artificial or Unknown found in <213> in SEQ ID (15)

Sequence Listing

<110> Universitaet Leipzig

<120> Method and Means for the Determination of Defined States or  
Modifications in the Mucus of the Uterus or in the Epithelium of Other  
Organs

<130> 401P07PCT-US

<140> 10559406

<141> 2008-06-25

<150> PCT/DE04/01210

<151> 2004-06-04

<150> DE10325639.3

<151> 2003-06-06

<150> DE10325638.5

<151> 2003-06-06

<160> 15

<210> 1

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-9 (e-beta-hCG)

<400> 1

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala

1 5 10

15

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<211> 15

<212> PRT

<213> artificial sequence

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<223> Epitope beta-9 (t?hCG)

<400> 2

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1 5 10

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<211> 15

<212> PRT

<213> artificial sequence

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<223> Epitope e-beta-1 (e-beta-hCG)

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Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr  
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<212> PRT  
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Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr  
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<223> beta-hCG beta-7 cDNA-Sequenz  
<400> 5

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actgagtcctc agaggtcaact tcaccgttgt ctccgcctca tccttggcgc tagaccactg 180  
agggggagagg actggggtgtc tccgctgagc cactcctgtg cttccctggc cttgtctact 240  
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cttgacgc(cc ccacaaaccc gaggtataaa gccaggtaa ccaggcaggg gacgcaccaa 360  
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ccatgaccccg cgtgctgcag ggggtcctgc cggccctgccc tcaggtggc tgcaactacc 600

gcgatgtgcg ctgcgagtcc atccggctcc ctggctgccc ggcggcgtg aaccccggtgg 660  
tctcctacgc cgtggctctc agtgtcaat gtgcactctg ccggccgcac accactqact 720  
gcgggggtcc caaggaccac cccttgacct gtgatgaccc ccgcttccag gcctcctctt 780  
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aggggagagg actgggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240  
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 ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatggc gggacatggg 420  
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gcgatgtgctgctc atccggctcc ctggctgccc gcgcggcgtg aaccccggtgg 660  
 tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgcgcgcgc accactgact 720  
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 actgagtctc agaggtcaact tcaccgtgtt ctccgcctca tccttggyc tagaccactg 180  
 aggggagagg actgggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240  
 tctcgcccc cgaagggtta gtgtcsagct cactccagca tcctacaacc tcctggtggc 300  
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 catccargga gmyrcttcgg ccacggtgcc gccccatcaa tgccaccctg gctgtggaga 480  
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gcgatgtgctgctc atccggctcc ctggctgccc gcgcggcgtg aaccccggtgg 660  
 tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgcgcgcgc accactgact 720  
 gcgggggtcc caaggaccac cccttgacct gtgatgaccc ccgcttccag gcctcctctt 780  
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<210> 8  
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 <212> PRT  
 <213> homo sapiens  
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 <223> t-beta-hCG beta-5,beta-8,beta-3(prehormone)  
 <400> 8

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 -20 -15 -10 -5

Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile  
 -1 1 5 10

Asn	Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	Val	Cys	Ile	Thr
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Val	Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	Met	Met	Arg	Val
30						35								40	
Gly	Val	Leu	Gln	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	Cys	Asn	Tyr	Arg
45						50						55		60	
Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly	Val
65						70								75	
Asn	Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	Gln	Cys	Ala	Leu
80						85								90	
Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu
95						100								105	
Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser	Ser	Ser	Lys	Ala	Pro
110						115								120	
Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr
125						130						135		140	
Pro	Ile	Leu	Pro	Gln											
				145											

<210>	9
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<400>	9

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Gly	Thr	Trp	Ala	Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro	Ile
-1	1					5								10	
Asn	Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	Val	Cys	Ile	Thr
15						20								25	
Val	Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	Met	Met	Arg	Val
30						35								40	
Gly	Val	Leu	Gln	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	Cys	Asn	Tyr	Arg
45						50						55		60	
Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly	Val

65                    70                    75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu  
80                    85                    90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
95                    100                    105

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Lys Ala Pro  
110                    115                    120

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr  
125                    130                    135                    140

Pro Ile Leu Pro Gln  
145

<210> 10  
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<213> homo sapiens  
<220>  
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Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile  
-1      1                5                    10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
15                    20                    25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
30                    35                    40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg  
45                    50                    55                    60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val  
65                    70                    75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu  
80                    85                    90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
95                    100                    105

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Lys Ala Pro  
110                    115                    120

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr  
125                    130                    135                    140

Pro Ile Leu Pro Gln  
145

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<212> PRT  
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>220>  
<223> beta-LH beta-4 (prehormone)  
<400> 11

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Gly Ala Trp Ala Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile  
-1 +1 5 10

Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
30 35 40

Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg  
45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val  
65 70 75

Asp Pro Val Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Ala Pro  
80 85 90

Cys Arg Arg Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
95 100 105

Thr Cys Asp His Pro Glu Leu Ser Gly Leu Leu Phe Leu  
110 115 120

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<212> PRT  
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<223> Peptide P1 (e-beta-hCG)  
<400> 12

Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser  
1 5 10

<210> 13  
<211> 10  
<212> PRT  
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<223> Peptide K1 (t-beta-hCG)  
<400> 13

Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser  
1 5 10

<210> 14  
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<400> 14

Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro  
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<210> 15  
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<223> Peptide K2 (t-beta-hCG)  
<400> 15

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro  
1 5 10